

FUEL CELL WITH INTEGRAL MANIFOLD

ABSTRACT

5 A MEMS-based fuel cell has a substrate, an electrolyte in contact with the
substrate, a cathode in contact with the electrolyte, an anode spaced apart from
the cathode and in contact with the electrolyte, and an integral manifold for
supplying either a fuel or an oxidant or both together, the integral manifold
extending over at least a portion of the electrolyte and over at least one of the
10 anode and cathode. Methods for making and using arrays of the fuel cells are
disclosed.